



Ivanti Standalone Sentry 9.14.0 - 9.20.0 Installation Guide

March 2024

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Revision history

TABLE 1. REVISION HISTORY

Date	Revision
March 28, 2024	Updated for Sentry 9.20.0
October 23, 2023	Updated for Sentry 9.19.0
July 18, 2023	Updated for Sentry 9.18.0
December 15, 2022	Updated for Sentry 9.17.0
August 08, 2022	Updated for Sentry 9.16.0.
April 05, 2022	Updated for Sentry 9.15.0.

Overview for installing Ivanti Standalone Sentry

This guide provides you with the information required to install Ivanti Standalone Sentry. Ivanti Standalone Sentry is a component of a Ivanti deployment. An Ivanti Standalone Sentry deployment requires that you have already installed one of the Unified Endpoint Management (UEM) platforms, Ivanti EPMM or Ivanti Neurons for MDM. With input from Ivanti EPMM or Ivanti Neurons for MDM, Ivanti Standalone Sentry does the following:

- Ivanti Standalone Sentry configured for ActiveSync protects the ActiveSync server from wrongful access from devices.
- Ivanti Standalone Sentry configured for AppTunnel provides authenticated apps secure access to the backend resource.

The installation instructions assume that you have already installed either Ivanti EPMM or Ivanti Neurons for MDM.

If your deployment uses Ivanti EPMM, refer to the Ivanti EPMM Installation Guide for your Ivanti EPMM version for information about setting up and installing Ivanti EPMM. This guide includes information about customer resources, deployment checklists, and firewall rules.

If your deployment uses Ivanti Neurons for MDM, the Setup Wizard takes you through the initial setup. See, online help available with Ivanti Neurons for MDM. Ensure that port 443 inbound is open. See [Ivanti Neurons for MDM Architecture and Port Requirements](#) for more information.

Download Ivanti Standalone Sentry ISO

For information about downloading the Ivanti Standalone Sentry ISO see the *Software download* section in the [Standalone Sentry Release and Upgrade Notes](#) for your release.

Requirements for on-premise installation

You can set up Ivanti Standalone Sentry on a virtual machine (VM) or a physical appliance. However, Sentry setup on a physical appliance is supported only for Ivanti EPMM deployment. Ivanti Standalone Sentry setup on a VM is supported for both Ivanti EPMM and Ivanti Neurons for MDM deployments.

The following provide the requirements for an on-premise Ivanti Standalone Sentry installation and contains the following sections:

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Virtual Ivanti Standalone Sentry requirements

If you are installing Ivanti Standalone Sentry on a virtual machine (VM), ensure that the minimum requirements are met.



Ivanti Standalone Sentry tunes its settings based on the available resources.

The following describe the minimum requirements for setting up Ivanti Standalone Sentry on a VM:

- ["Hard drive" below](#)
- ["Periodic backups for VMware" below](#)
- ["VMware requirements \(Ivanti EPMM and Ivanti Neurons for MDM\)" on the next page](#)
- ["Hyper-V requirements \(Ivanti EPMM and Ivanti Neurons for MDM\)" on page 9](#)
- ["Minimum memory and CPU requirements for email \(VMware and Hyper-V\)" on page 9](#)
- ["Minimum requirements for tunneling \(VMware and Hyper-V\)" on page 9](#)

Hard drive

Ivanti recommends the following:

- Configuring only one hard drive on the virtual machine.
- Since system performance is directly related to hard disk drive performance, use only high-performance tier 1 storage products.

Periodic backups for VMware

Ivanti recommends the following:

- Take periodic .vmdk backups of your Virtual Appliance as part of your system maintenance.
- Use VMware VCB or another VMware-supported backup system.

- A backup of the full virtual disk is recommended; VMware snapshots are not sufficient.

VMware requirements (Ivanti EPMM and Ivanti Neurons for MDM)

Confirm the following requirements before setting up Ivanti Standalone Sentry on VMware:

Download link or package (ISO) from Support: [Support page](#)

- VMware
 - ESXi 7.0
 - ESXi 6.5
 - ESXi 6
 - ESXi 5.1/5.5
- 64-bit VM
- Network adapter:
 - E1000
 - VMXNET3
- VM OS Type:
 - CentOS (64-bit)
 - Other Linux (64-bit)
 - Red Hat Enterprise Linux (64-bit)
This setting is intended to ensure successful installation; it does not imply that Ivanti distributes Red Hat.
- CPU Settings:
 - Shares: Normal
 - Reservation: 900MHz
 - Limit: Unlimited (maximum assigned)



Ivanti supports LSI logic SAS or Parallel SCSI controllers; para-virtualized controllers are not supported at this time. Only E1000 and VMXNET3 network adapters are supported.

Hyper-V requirements (Ivanti EPMM and Ivanti Neurons for MDM)

Confirm the following requirements before setting up Ivanti Standalone Sentry on Hyper-V:

- Hyper-V version
 - Microsoft Hyper-V Server 2012 R2
 - Microsoft Hyper-V 2016
 - Microsoft Hyper-V 2019
- 64-bit VM
- Network adapter

Microsoft Hyper-V Server 2008 requires legacy network adapter.

Minimum memory and CPU requirements for email (VMware and Hyper-V)

The following table shows VM memory and CPU requirements depending on the number of devices your Ivanti Standalone Sentry supports for email:

TABLE 2. MINIMUM MEMORY AND CPU REQUIREMENTS FOR EMAIL (VMWARE AND HYPER-V)

	Small configuration	Medium configuration	Large configuration
Maximum devices	< 2000 devices	< 8000 devices	< 20,000 devices
Memory	4 GB	6 GB	8 GB
Virtual CPUs **	1	2	4
Memory reservations	Reservations: 4 GB	Reservations: 6 GB	Reservations: 8 GB
Disk	20 GB	30 GB	40 GB

Minimum requirements for tunneling (VMware and Hyper-V)

To calculate the requirements for AppTunnel, see [Sizing Calculator for the Access and AppTunnel Sentry](#).

Supported appliances

The following provide the appliances supported and the number of devices supported for emails and app tunnels for an appliance:

- ["Supported number of devices for email" below.](#)
- ["Supported number of devices for tunneling" below.](#)

Supported number of devices for email

The following table summarizes capacity of supported devices (email only) for physical Ivanti Standalone Sentry models:

TABLE 3. MAXIMUM NUMBER OF DEVICES SUPPORTED FOR EMAIL (HARDWARE)

Model	Max Number of Devices
M2700	40,000
M2600	40,000
M2500	40,000
M2250	20,000

Supported number of devices for tunneling

To calculate the requirements for AppTunnel, see [Sizing Calculator for the Access and AppTunnel Sentry](#).

Installing the Ivanti Standalone Sentry ISO on an appliance (Ivanti EPMM only)


You can install an Ivanti Standalone Sentry ISO on an appliance using a DVD or USB drive. The following describe the preparation and installation:

1. ["Setting up access to the appliance" below](#)
2. ["Preparing a USB drive for installation" on the next page](#)
3. ["Installing Ivanti Standalone Sentry ISO from DVD or USB" on page 13](#)
4. ["Installing Ivanti Standalone Sentry ISO using IPMI " on page 14](#)

Setting up access to the appliance

 Ivanti Standalone Sentry setup on an appliance is not supported for Ivanti Neurons for MDM.

If you are installing the Ivanti Standalone Sentry ISO on a physical appliance, you need to set up access to the console. You can use a PC or remote console system.

 If using a PC, make sure it has a terminal program, such as Putty or HyperTerminal.

Procedure

1. Connect a console cable to the DB-9 port on the back of the appliance.
2. Connect a serial cable to a PC or remote console system.

Next steps

- If you are installing the Ivanti Standalone Sentry ISO on any appliance using a USB drive, go to ["Preparing a USB drive for installation" on the next page](#) for instructions on how to prepare the USB drive.
- If you are installing the Ivanti Standalone Sentry ISO using a DVD go to ["Installing Ivanti Standalone Sentry ISO from DVD or USB" on page 13](#) for the installation steps.
- If you are installing the Ivanti Standalone Sentry ISO using the IPMI feature, go to ["Installing Ivanti Standalone Sentry ISO using IPMI " on page 14.](#)

Related topics

For initial configuration for Ivanti Standalone Sentry, go to ["Using the setup wizard to complete Ivanti Standalone Sentry installation" on page 24.](#) Follow the steps to configure the Standalone Sentry.

Preparing a USB drive for installation



The M2600 and M2700 appliances do not come with a DVD-ROM drive. You will need to use a USB drive instead.

The following describes how to prepare a bootable USB drive. Do these steps only if you are using a USB drive to install the Ivanti Standalone Sentry ISO on an M2700, M2600 or M2250 appliance.

Before you begin

Ensure that the USB flash drive meets the following minimum requirements:

- USB Standard 2 or 3
- USB Connector Type-A
- Minimum size 2 GB

The following procedure is destructive. Any data on the USB flash drive will be destroyed with no warning.

Procedure

Creating a bootable USB drive on Windows PC

1. Insert a USB drive into a Windows PC.
2. Download the Ivanti Standalone Sentry ISO image to the same PC from the Ivanti Support site.
3. Download a third-party bootable USB creation tool to the same PC to create a bootable USB drive. You can download one from <https://rufus.ie/>.
4. Run the tool and provide the following information when asked in the tool wizard:
 - a. Location of ISO.
 - b. Location of USB drive.
 - c. Volume label for the USB drive - Empty.
 - d. Image mode for the USB drive - Select "Write in DD Image mode".
5. Complete the wizard to create a bootable USB drive.

Creating a bootable USB drive on macOS

1. Download the Ivanti Standalone Sentry ISO image from the [Ivanti Support site](#) and note the location of the ISO image.
2. Identify the device path of the USB drive using the `diskutil list` command. The device path has the format of `/dev/disk<n>`, where `<n>` is the disk number.
3. Unmount the USB drive's file system volume using the `diskutil unmountDisk /dev/disk<n>` command.
4. Use the `dd` command to write the downloaded Sentry ISO image to the USB drive. Use the `sudo` command for this:

```
sudo dd if=<path_to_the_iso_image> of=/dev/rdisk<n> bs=1m
```



Wait for the command to complete. There is no progress bar displayed. Check the status of the operation with `Ctrl+t` in the terminal.

5. Unplug the USB drive after the command is complete. The drive is now ready to be used for Sentry ISO installation from USB.

Next steps

See "[Installing Ivanti Standalone Sentry ISO from DVD or USB](#)" below for the installation steps.

Installing Ivanti Standalone Sentry ISO from DVD or USB

The following steps describe the installation of the Ivanti Standalone Sentry ISO.

Before you begin

- Set up access to the appliance as described in "[Setting up access to the appliance](#)" on page 11.
- Download the Ivanti Standalone Sentry ISO from the software download site. See the release notes for links to the latest version.
- If you are installing on a M2700 or M2600 appliance, do the steps described in "[Preparing a USB drive for installation](#)" on the previous page.

Procedure

1. Insert the DVD or USB (containing the Ivanti Standalone Sentry ISO image) into the appliance. USB installation is available only on the M2700 and M2600 appliance.
2. Wait for the appliance to reboot for the installation program to begin after a few minutes.

Next steps

See "[Using the setup wizard to complete Ivanti Standalone Sentry installation](#)" on page 24, for information on using the installation wizard.

Installing Ivanti Standalone Sentry ISO using IPMI

The appliance comes with the Intelligent Platform Management Interface (IPMI) module. Log in to the module remotely to install the Ivanti Standalone Sentry ISO.

Before you begin

- Assign an IP address and user name and password to the IPMI module.
- Download the Ivanti Standalone Sentry ISO from the Ivanti software download site. See the release notes for links to the latest version.

Procedure

1. Log in to the IPMI module from a browser.
2. Go to **Remote Control > Console Redirection**.
3. Click **Launch Console** and click **Save**.
4. Open this file with Java Web Launcher. The installation begins.
The **Security Warning** window opens.
5. Click **Run** to continue the installation.
6. Enter the **Username** and **Password**.
The **KVM Console** is launched.
7. Click **Virtual Media > Virtual Storage**.
The **Virtual Storage** window opens.
8. On the **Device1** tab, select **Logical Drive Type > ISO File**.
9. Click **Open Image** and select the downloaded Sentry ISO.
10. Click **Plug In** and **OK**.
Ensure that the ISO file is mounted in the virtual device without any error.

11. Click **Power Control > Power Reset**.
The appliance reboots.
12. After appliance reboots, the Sentry installation welcome screen and prompt or options display. Select the appropriate installation option.

Next steps

Go to "[Using the setup wizard to complete Ivanti Standalone Sentry installation](#)" on page 24. Follow the steps to do the initial configuration of Ivanti Standalone Sentry.

Gather Ivanti Standalone Sentry installation setup information

The Ivanti Standalone Sentry installation uses a wizard for an easier process. Before using this wizard, it could be useful to gather the necessary information you will need to input into the wizard. Use the following worksheet to gather this information.

TABLE 4. GATHER IVANTI STANDALONE SENTRY INSTALLATION INFORMATION

Wizard request	Value
Installation types: Virtual machines, M2600 and other appliances <ul style="list-style-type: none"> • <i>vm-install</i> for installing on a virtual machine • <i>hw-install</i> for installing on a physical appliance • <i>hw-usb-install</i> for installing on an appliance using USB M2700 appliance <ul style="list-style-type: none"> • Install MobileIron Sentry <version> for installing the Ivanti Standalone Sentry ISO • Install MobileIron Sentry <version> from USB for installing on an appliance using USB 	
Company name	
Contact person name	
Contact email	
Password (must be between 6 and 20 characters)	
Administrative user name (do not use <i>root</i>)	
Administrator password (must meet security criteria by including numerals and capital letters)	
Physical interface to connect to the management network. <ul style="list-style-type: none"> • a = for GigabitEthernet1 • b = for GigabitEthernet2 	
IP address for the Sentry (associated with the physical interface)	
Netmask for use with the IP address (e.g., 255.255.255.0)	
Default gateway for the appliance	

TABLE 4. GATHER IVANTI STANDALONE SENTRY INSTALLATION INFORMATION (CONT.)

Wizard request	Value
Fully-qualified external domain name for the appliance	
IP address of the primary name server to be used by the appliance	
(Optional) Secondary and tertiary name servers	
(Optional) IP address of the primary time source (NTP server) if you are configuring a time source	

Ivanti Standalone Sentry installation on premise

The following describes how to install Ivanti Standalone Sentry on premise:

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Before installing Ivanti Standalone Sentry

- Ensure that DNS is set up to direct Ivanti Standalone Sentry to a valid internal IP address when it looks up the FQDN of UEM.

If you did not set up the DNS before installing the Sentry, then after the initial Sentry setup, you must add a Host entry in the Sentry System Manager. To add a host, in the Sentry System Manager, go to **Settings > Static Hosts**.

- Create a VM that meets the specifications recommended by Ivanti.

See "[Virtual Ivanti Standalone Sentry requirements](#)" on page 7 for specifications. The Ivanti Standalone Sentry installation will complete the installation based on the resources you have configured; the installation script does not provide an opportunity to select a deployment size (i.e., small, medium, etc.).

Failing to size the VM according to the minimum specification results in a daily error message in the System log.

- Ivanti Standalone Sentry installation uses a wizard for an easier process. Before using this wizard, Ivanti recommends gathering the necessary information needed to input into the wizard. See "[Gather Ivanti Standalone Sentry installation setup information](#)" on page 16.
- You must have already deployed either Ivanti EPMM or Ivanti Neurons for MDM. Ivanti Standalone Sentry installation on premise is supported for Ivanti EPMM and Ivanti Neurons for MDM.

Installing Ivanti Standalone Sentry ISO on a VM

The following provide the steps for installing the Ivanti Standalone Sentry ISO on a virtual machine (VM):

- ["Installing Ivanti Standalone Sentry ISO on VMware" below](#)
- ["Installing Ivanti Standalone Sentry ISO on Hyper-V" on the next page](#)

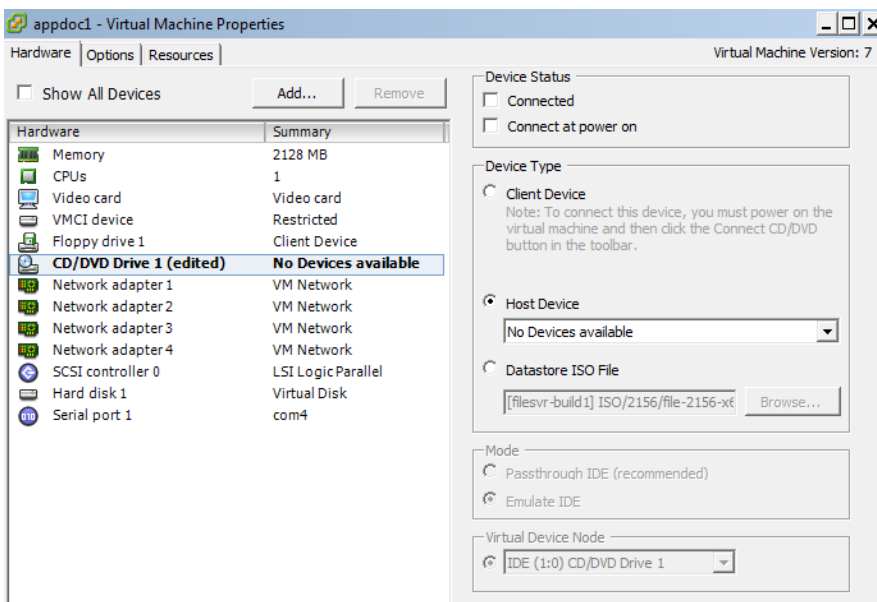
Installing Ivanti Standalone Sentry ISO on VMware

This section provides instructions on how to download Ivanti Standalone Sentry ISO to VMware.

Procedure

1. Place the ISO distribution in an existing vSphere datastore.
2. In the vSphere Client, select the **Edit Settings** option for the VM you created.

FIGURE 1. VIRTUAL MACHINE IN VMWARE



3. Select **Datastore ISO File**.
4. Click **Browse** to select the Sentry ISO distribution.

5. Make sure the "Connected" and "Connect at power on" options in the Virtual Machine Properties screen **are selected**.
6. Select **Host Device**.
7. Click **OK**.
8. Power on the VM.

The VM automatically installs and reloads after a few minutes, and the installation program starts. See ["Using the setup wizard to complete Ivanti Standalone Sentry installation" on page 24](#) for the next steps.

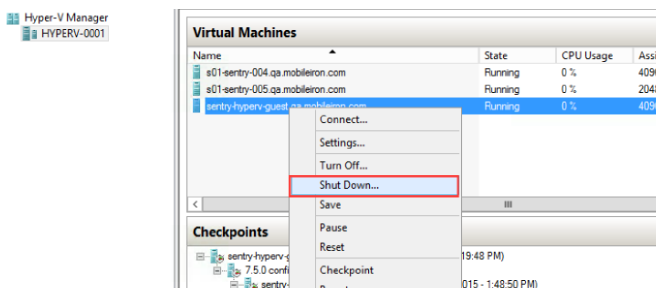
Installing Ivanti Standalone Sentry ISO on Hyper-V

This section provides instructions on how to download the Ivanti Standalone Sentry ISO to Hyper-V.

Procedure

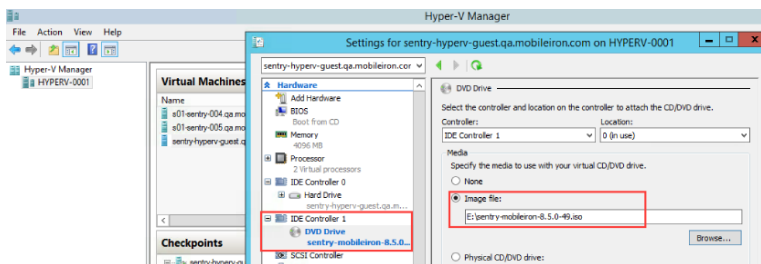
1. Log into your Windows server.
2. From a web browser, download the ISO to the VM datastore.

FIGURE 2. VIRTUAL MACHINE IN HYPER-V MANAGER



3. In the Hyper-V Manager, select the Virtual Machine (VM) and shut it down by right clicking on the VM and clicking **Shutdown**.
4. Right-click on the VM and click on Settings.

FIGURE 3. LOCATION OF THE IMAGE FILE



5. Click on DVD Drive and select **Image file**.
6. Enter the location of the image file you downloaded in ["From a web browser, download the ISO to the VM datastore."](#) above

7. Right-click on the VM and click on **Start** to start the installation.

See "[Using the setup wizard to complete Ivanti Standalone Sentry installation](#)" on the next page for the next steps.

Using the setup wizard to complete Ivanti Standalone Sentry installation

When you first boot the Ivanti Standalone Sentry you automatically open the installation setup wizard. The Welcome screen is shown. Use the information gathered in the worksheet ("[Gather Ivanti Standalone Sentry installation setup information](#)" on page 16) to complete the Ivanti Standalone Sentry installation steps.

Procedure

TABLE 5. STANDALONE SENTRY INSTALLATION STEPS


Step	Prompt	Enter
1.	<ul style="list-style-type: none"> • Virtual machines, M2600 and other appliances <pre>Welcome to Ivanti Sentry Installation - For virtual machine installation, type: vm-install<ENTER> - For standard physical appliance installation, type: hw-install<ENTER> - For standard physical appliance installation from USB, type: hw-usb-install<ENTER> - To boot from your local hard disk, type: <ENTER></pre> <hr/> <p> System will boot from the local hard disk in 30 seconds if no key is pressed.</p> <hr/> <ul style="list-style-type: none"> • M2700 appliance <pre>M2700 installation - select from one of the following options: - Install Ivanti Sentry <version> - Install Ivanti Sentry <version> from USB</pre>	<p>One of the following installation types:</p> <ul style="list-style-type: none"> • vm-install: for installing on a virtual machine. • hw-install: for installing on standard physical appliances. • hw-usb-install: for installing on standard physical appliances from a USB. <p>The options for physical appliances are applicable only if your deployment uses Ivanti EPMM. Ivanti Neurons for MDM does not support the options for physical appliances.</p> <p>Select this option for ISO installation and click Enter.</p> <p>Select this option for USB installation and click Enter.</p>
2.		<p>Press Enter.</p> <p>The Sentry installation begins and might take several minutes.</p> <p>The Configuration Wizard starts. Use the Configuration Wizard to set the following:</p> <ul style="list-style-type: none"> • system properties/admin accounts • network settings

TABLE 5. STANDALONE SENTRY INSTALLATION STEPS (CONT.)

Step	Prompt	Enter
3.	Welcome to the Configuration Wizard Use the "-" character to move back to a previous field. Continue with configuration dialog? (yes/no):	yes
4.	Do you accept the End User License Agreement?:	yes Enter yes to accept the End User License Agreement.
System properties and admin accounts setup		
5.	Company name	A <i>name</i> that identifies your organization.
6.	Contact person name	The <i>name</i> of the responsible person in your organization.
7.	Contact person email	The <i>email address</i> for the responsible person.
8.	Enter enable secret:	A <i>password</i> for privileged access. The password must be alphanumeric and contain 6-20 characters.
9.	Enter enable secret (confirm):	Re-enter the <i>password</i> you just set.
10.	Administrator User Name:	<i>User name</i> for the Sentry administrator.
11.	Administrator Password	<i>Password</i> for the Sentry administrator.
12.	Administrator Password (confirm)	Re-enter the <i>password</i> you just set.
Network setup		
13.	Available network interfaces: a) GigabitEthernet1 b) GigabitEthernet2 Select the interface that will be used to connect to the management network:	The <i>letter</i> for the physical interface you want to use.
14.	IP address:	The <i>IP address</i> for this system. The IP address will be associated with the physical interface you selected.

TABLE 5. STANDALONE SENTRY INSTALLATION STEPS (CONT.)

Step	Prompt	Enter
15.	Netmask:	The <i>subnet mask</i> associated with the IP address you just entered.
16.	Default Gateway:	The <i>default gateway address</i> for this system.
17.	External Hostname (Fully-Qualified Domain Name):	The <i>fully-qualified domain name</i> for this system.
18.	Default domain:	The <i>default domain</i> for this system.
19.	Name server 1:	The <i>IP address</i> for the primary DNS name server to be used by the appliance.
20.	Name server 2:	(Optional) The <i>IP address</i> of a secondary name server, or press Enter if you have finished entering name servers.
21.	Name server 3:	(Optional) The <i>IP address</i> of a tertiary name server, or press Enter if you have finished entering name servers.
22.	Enable remote shell access via SSH (yes/NO):	yes to enable remote access via SSH.
23.	Configure NTP? (yes/no):	<p>yes to enable an NTP service and specify time sources.</p> <p>Ivanti recommends that you configure at least one time source to ensure proper synchronization of time-based tasks.</p> <p>Enter no, if you do not want to set up an NTP server. You will be prompted to set the system clock.</p>
	NTP server 1 hostname or address:	<p>the <i>hostname or IP address</i> of a time source if you entered yes for configuring NTP.</p> <p>If you entered no for configuring NTP, you are prompted to set the system clock.</p> <ul style="list-style-type: none"> • Use HH:MM:SS as the format for the time you enter. • Use DD MM YYYY as the format for the date you enter.

TABLE 5. STANDALONE SENTRY INSTALLATION STEPS (CONT.)

Step	Prompt	Enter
	NTP server 2 hostname or address:	the hostname or IP address of a secondary NTP server, or press Enter if you are finished entering NTP servers.
	NTP server 3 hostname or address:	the hostname or IP address of a tertiary NTP server, or press Enter if you are finished entering NTP servers.
24.	Commit this config?	review the output. Enter yes to save the changes.
Reload		
25.	Ivanti Standalone Sentry command line interface (CLI) command prompt	reload to complete the installation. Enter yes and yes again. The installation script continues, displaying status on the console. This may take several minutes. Ignore the following message unless the installation fails to complete: Unable to connect to MICS service...

Next steps

- (Optional) If needed, once the installation is complete, install the VMware tools. See ["Installing the VMware tools" on the next page](#).
- Standalone Sentry configuration is done in the UEM platform you have deployed. Depending on whether you have deployed Ivanti EPMM or Ivanti Neurons for MDM, you will either add or register Standalone Sentry.

• **TABLE 6.** CONFIGURE STANDALONE SENTRY

UEM	Next Steps
Ivanti EPMM	For Ivanti EPMM deployments, configure Standalone Sentry in the Ivanti EPMM Admin Portal. See "Adding Ivanti Standalone Sentry in Ivanti EPMM" on the next page.
Ivanti Neurons for MDM	For Ivanti Neurons for MDM deployments, register Standalone Sentry. See "Registering Ivanti Standalone Sentry to Ivanti Neurons for MDM" on page 32.

Installing the VMware tools



The open-vm-tools rpm is now installed by default when Sentry runs on VMware platform and is not required to install the VMware tools manually.

Adding Ivanti Standalone Sentry in Ivanti EPMM

This procedure only applies to Ivanti EPMM deployments.

Add Ivanti Standalone Sentry in Ivanti EPMM and then configure the ActiveSync or AppTunnel settings for the Standalone Sentry.

Procedure

1. Log into the Admin Portal.
2. Go to **Services > Sentry** in the Admin Portal.
3. Select **Add New > Standalone Sentry**.
4. Edit the settings to configure Standalone Sentry as necessary.
5. Click **Save > OK**.

Related topics

- For information about how to configure Standalone Sentry for ActiveSync, AppTunnel, and Kerberos Key Distribution Center Proxy (KKDCP), see the Sentry Guide for Ivanti EPMM.
- ["Accessing the Ivanti Standalone Sentry System Manager" on page 33.](#)
- ["Software updates " on page 34.](#)

Registering Ivanti Standalone Sentry to Ivanti Neurons for MDM

This procedure only applies to Ivanti Neurons for MDM deployments.

After installing Ivanti Standalone Sentry, register the Sentry with Ivanti Neurons for MDM. You can Ivanti Standalone Sentry from the Standalone Sentry command line interface.

Procedure

1. At the Ivanti Standalone Sentry command line prompt, enter `enable`.
2. Enter the enable privileged password.
3. Enter `configure terminal`.
4. Enter `registration <user>`.

`<user>` is the username (`name@email_server.com`) of the Ivanti Neurons for MDM tenant admin.

5. Enter the tenant admin password when prompted.
6. Enter `end`.
7. Enter `show registration status`.
8. Confirm that the registration was successful.

The output of `show registration status` provides information whether or not the registration was successful.

Example:

```
sentry# show registration status
Sentry registration has been completed.
Registered successfully on Thu Feb 16 02:07:06 UTC 2017
User name used for registration: admin@sentry.yourcompany.com
sentry#
```

Next steps

Create a profile for Standalone Sentry in Ivanti Neurons for MDM.

Related topics

- For information on how to create a profile for Ivanti Standalone Sentry and configure Ivanti Standalone Sentry for ActiveSync and AppTunnel, see the Sentry Guide for Ivanti Neurons for MDM.
 - ["Accessing the Ivanti Standalone Sentry System Manager" on the next page.](#)
 - ["Software updates " on page 34.](#)

Accessing the Ivanti Standalone Sentry System Manager

You use the Ivanti Standalone Sentry System Manager to configure and update the Ivanti Standalone Sentry network settings such as, host name, network address, interfaces, and routes. You also use the Ivanti Standalone Sentry System Manager to manage portal certificates and access logs for troubleshooting.

Procedure

1. Open a supported browser.
2. Enter the URL and port number for the Sentry:

`https:<sentry_hostname>:8443/mics`

3. Enter the credentials set during installation of the Sentry.
4. Click **LOGIN** to open the Ivanti Standalone Sentry System Manager home screen.

FIGURE 1. IVANTI STANDALONE SENTRY SYSTEM MANAGER HOME SCREEN

The screenshot displays the Ivanti Standalone Sentry System Manager interface. The top navigation bar includes tabs for SETTINGS, SECURITY, MAINTENANCE, TROUBLESHOOTING, and MONITORING. The left sidebar shows a tree view with categories like Network, Services, and Sentry. The main content area is titled 'Settings -> Network -> Interfaces' and is divided into 'Physical Interfaces' and 'VLAN Interfaces' sections. The Physical Interfaces section contains a table with columns for Name, IP, Mask, ACL Name, and Admin State. The VLAN Interfaces section includes 'Add' and 'Delete' buttons and a table with columns for VLAN ID, IP, Mask, Physical Interface, ACL Name, and Admin State.

Physical Interfaces					
Name	IP	Mask	ACL Name	Admin State	
GigabitEthernet1	10.10.26.96	255.255.0.0	None	Enable	
GigabitEthernet2	192.168.20.30	255.255.255.0	None	Enable	
GigabitEthernet3	0.0.0.0	0.0.0.0	None	Disable	
GigabitEthernet4	0.0.0.0	0.0.0.0	None	Disable	

VLAN Interfaces					
VLAN ID	IP	Mask	Physical Interface	ACL Name	Admin State

Software updates

See the *Ivanti Standalone Sentry Release and Upgrade Notes*, for the specific release, for information on supported upgraded paths and other upgrade related information specific to that release. The *Ivanti Standalone Sentry Release and Upgrade Notes* also provides references for upgrade instructions. For the software upgrade procedure, see the *Ivanti Sentry Guide*.

Ivanti Standalone Sentry Installation on Amazon Web Services

The following describe how to install Ivanti Standalone Sentry on Amazon Web Services (AWS):

Before you begin Ivanti Standalone Sentry installation on Amazon Web Services (AWS)	36
Overview of tasks for installing Ivanti Standalone Sentry on AWS	38
Creating an instance of Ivanti Standalone Sentry on AWS	39
Setting the initial configuration of Ivanti Standalone Sentry on AWS	40
Configuring DNS for Ivanti Standalone Sentry	41
Ivanti Standalone Sentry configuration wizard prompts and options	42

Before you begin Ivanti Standalone Sentry installation on Amazon Web Services (AWS)

Before you install Ivanti Standalone Sentry on Amazon Web Services (AWS), ensure the following:

- You have a UEM deployed.
- You have an AWS account.
- Ports 22 and 443 inbound are open.
- The following minimum memory and CPU requirements are available for Ivanti Standalone Sentry. The table lists t2.medium type configuration offered by AWS that maps to the Ivanti Standalone Sentry small configuration size.

TABLE 7. MINIMUM MEMORY AND CPU REQUIREMENTS

Parameters	Medium configuration
Maximum devices	< 8000 devices
Minimum memory	4 GB
Virtual CPUs**	2
Disk	32 GB

- The Ivanti Standalone Sentry medium configuration size maps to the t2.large type offered by AWS.
- To access Ivanti Standalone Sentry System Manager, you have enabled port 8443 or TCP port on AWS security group.
- Site-to-site VPN is enabled between Ivanti EPMM and AWS.

Working with RSA Keys for SSH Access

The RSA keys are a pair of public and private keys known as a key pair. You can generate RSA keys or use the existing RSA keys for SSH Access. The following procedure provides steps to create and use the key pairs. If you already have a key pair generated, then skip steps a, b, and c.



To create new key pair using Amazon EC2, see Creating a Key Pair in <http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ec2-key-pairs.html>.

Procedure

1. Run the following commands in PowerShell to generate the RSA keys.

Generate the private.pem file.

```
#openssl genrsa -des3 -out private.pem 2048
```

Change the permission of the private.pem file.

```
#chmod 400 private.pem
```

Generate the public.pem file using the private.pem file.

```
#openssl rsa -in private.pem -outform PEM -pubout -out public.pem
```

Open the public.pem file and delete the following lines if present and save the file:

```
-----BEGIN PUBLIC KEY-----
```

```
-----END PUBLIC KEY-----
```

2. In AWS, on the left pane, click **Key Pairs** > **Import Key Pair**.
3. Click **Browse** and upload the public.pem file.

Related topics

For more information on key pairs, see <http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ec2-key-pairs.html>.

Overview of tasks for installing Ivanti Standalone Sentry on AWS

The following provides an overview of the tasks for installing Ivanti Standalone Sentry on AWS:

1. ["Creating an instance of Ivanti Standalone Sentry on AWS" on the next page.](#)
2. ["Setting the initial configuration of Ivanti Standalone Sentry on AWS" on page 40.](#)
3. ["Configuring DNS for Ivanti Standalone Sentry" on page 41](#)

Creating an instance of Ivanti Standalone Sentry on AWS

Ivanti Standalone Sentry is packaged as an Amazon Machine Image (AMI) and is available in multiple AWS regions. It is available on AWS community as a public AMI.

Before you begin

- Verify that you have a valid AWS account.
- Verify that the system and memory requirements are met as mentioned in the "[Ivanti Standalone Sentry Installation on Amazon Web Services](#)" on page 35 section.
- Verify that port 22 is open when the instance is created. SSH is enabled by default in the instance.
- The source IP must be decided by the administrator.

Procedure

1. Log in to **AWS** with admin credentials.
2. On the **AWS services** page, click **EC2** under **Compute**.
3. Expand **Images** and select **AMIs** in the left pane.
4. Select **Public Images** from the drop-down list in the right pane.
5. Search for Sentry using **Sentry-MobileIron** as the keyword. Select the latest version of Sentry from the list and click **Launch**.
6. On **Step 2: Choose Instance Type** page, select **General purpose - t2.medium** as the instance type and click **Next: Configure Instance Details**.
7. On **Step 3: Configure Instance Details** page, retain the default values, and click **Next: Add Storage**.
Note: Verify that the Auto Assigned Public IP is enabled.
8. On **Step 4: Add Storage** page, retain the default values and click **Next: Add Tags**.
9. On **Step 5: Add tags** page, retain the default values and click **Next: Configure Security Group**.
10. On **Step 6: Configure Security Group** page, select **Select an existing security group** and select **launch-wizard-1**. Click **Review and Launch**.
11. Select the existing key pair for SSH and the acknowledgment. After a successful launch, the launch status is displayed.

Related topics

For more information RSA keys, see "[Working with RSA Keys for SSH Access](#)" on page 36.

Next steps

Go to "[Setting the initial configuration of Ivanti Standalone Sentry on AWS](#)" on the next page.

Setting the initial configuration of Ivanti Standalone Sentry on AWS

After creating an instance, do the initial configuration of Ivanti Standalone Sentry on AWS.

Before you begin

- Verify that you have created an instance of Ivanti Standalone Sentry on AWS. See ["Creating an instance of Ivanti Standalone Sentry on AWS" on the previous page.](#)

Procedure

1. Run the following command from shell on your machine:

```
#ssh -i private.pem aws-user@<hostname>
```
2. Use the Configuration Wizard to set up Ivanti Standalone Sentry.
3. Enter **reload** to complete the installation.

Ignore the Hostname warning.

Related topics

For a description of the configuration wizard prompts and actions, see ["Ivanti Standalone Sentry configuration wizard prompts and options" on page 42.](#)

Next steps

Ivanti Standalone Sentry configuration is done in the UEM platform you have deployed. Depending on whether you have deployed Ivanti EPMM or Ivanti Neurons for MDM, you will either add or register Ivanti Standalone Sentry.

Secure the communication from your UEM to Ivanti Standalone Sentry through an IPSec tunnel.

TABLE 8. NEXT STEPS

UEM	Next Steps
Ivanti EPMM	For Ivanti EPMM deployments, you must configure Ivanti Standalone Sentry in the Ivanti EPMM Admin Portal. See "Adding Ivanti Standalone Sentry in Ivanti EPMM" on page 31.
Ivanti Neurons for MDM	For Ivanti Neurons for MDM deployments, you must register Ivanti Standalone Sentry. See "Registering Ivanti Standalone Sentry to Ivanti Neurons for MDM" on page 32.

Configuring DNS for Ivanti Standalone Sentry

Configure DNS so that the Ivanti Standalone Sentry instance on AWS uses DNS on the other side of the AWS tunnel by default. Configuring the DNS for Ivanti Standalone Sentry is optional. You may need to configure the DNS for Ivanti Standalone Sentry in some cases, such as, the backend resources that Ivanti Standalone Sentry connect to are on premise.

Procedure

1. In the AWS VPC console, go to **DHCP Options Sets**.
2. Create a new DHCP Options Set.
 - Add the internal domain name for Ivanti Standalone Sentry.
 - Add the on-premise DNS server address.

The Ivanti Standalone Sentry AWS instance in the VPC now defaults to using the DNS on the other side of the AWS tunnel by default.

Related topics

For more information, see the AWS documentation at [Changing the Set of DHCP Options a VPC Uses](#).

Ivanti Standalone Sentry configuration wizard prompts and options

The following table provides sequence of prompts and actions in the configuration wizard for Ivanti Standalone Sentry.

TABLE 9. CONFIGURATION WIZARD PROMPTS AND ACTIONS



Prompt	Enter
System properties, Admin accounts setup	
Welcome to the Configuration Wizard Use the "-" character to move back to a previous field. Continue with configuration dialog? (yes/no):	yes
Do you accept the End User License Agreement?:	yes Enter yes to accept the End User License Agreement.
Company name	A name that identifies your organization.
Contact person name	The name of the responsible person in your organization.
Contact person email	The email address for the responsible person.
Enter enable secret:	A password for privileged access. The password must be alphanumeric and contain 6-20 characters.
Enter enable secret (confirm):	Re-enter the password you just set.
Administrator User Name:	User name for the Sentry administrator.
Administrator Password	Password for the Sentry administrator.
Administrator Password (confirm)	Re-enter the password.
Network setup	
 DHCP and SSH are enabled by default. SSH can be disabled after doing the initial setup.	
Hostname	A valid FQDN.  Ivanti recommends that you use the Public DNS name provided by AWS.
Configure NTP? (yes/no):	yes Enter yes to specify the time source. If you decide not to set up NTP access, then you will be prompted to set the system clock.

TABLE 9. CONFIGURATION WIZARD PROMPTS AND ACTIONS (CONT.)

Prompt	Enter
NTP server 1 hostname or address:	The hostname or IP address of the NTP server. The NTP server address should be a public IP address reachable by Standalone Sentry. Example: time.apple.com
NTP server 2 hostname or address:	The hostname or IP address of another time source, or press Enter if you have finished entering time sources. The NTP server address should be a public IP address reachable by Standalone Sentry. Example: time.apple.com
NTP server 3 hostname or address:	The hostname or IP address of another NTP server, or press Enter if you have finished entering time sources. The NTP server address should be a public IP address reachable by Standalone Sentry. Example: time.apple.com
Commit this config?	yes

Ivanti Standalone Sentry installation on Microsoft Azure

The following describe how to install Ivanti Standalone Sentry on Microsoft Azure:

Before you begin Ivanti Standalone Sentry installation on Microsoft Azure	46
Overview of tasks for installing Ivanti Standalone Sentry on Microsoft Azure	49
Installing Ivanti Standalone Sentry on Microsoft Azure	50
Setting the initial configuration of Ivanti Standalone Sentry installed on Microsoft Azure	52
Ivanti Standalone Sentry configuration wizard prompts and options	54

Before you begin Ivanti Standalone Sentry installation on Microsoft Azure

Before you install Ivanti Standalone Sentry on Microsoft Azure, ensure the following:

- You have a UEM deployed.
- Port 443 inbound is open.
- You have a Microsoft Azure account.
- You have made a note of the VHD location. You will need this when you are "[Installing Ivanti Standalone Sentry on Microsoft Azure](#)" on page 50.

VHD-Location: See the *Ivanti Standalone Sentry Release and Upgrade Notes* for your release.

- You have downloaded the following json files:
 - the parameter file, which includes information such as the initial azure user, vhd to be used, the storage account. You will update this file during installation.
 - the deployment file with default values required for installation, such as the inbound and outbound rules to allow or disallow incoming and outgoing IP addresses. Do not make any changes to this file.
- See the *Ivanti Standalone Sentry Release and Upgrade Notes* for the location of these files.

- The installation instructions provided use the Microsoft Azure Cloud Shell bash CLI 2.7 and *azcopy* commands. If you are using a Mac or PC, the Microsoft Azure command line plugin must be downloaded and installed to your Mac or Linux machine.
 - Download the azcopy as per the following document: <https://docs.microsoft.com/en-us/azure/storage/common/storage-use-azcopy-v10>
 - `azcopy copy`
`"https://<sentry.blob.core.windows.net>/<sentrycontainer>/<vhd file>"`
`"<Local Download Location>" --overwrite=prompt --check-md5`
`FailIfDifferent --from-to=BlobLocal --recursive --trusted-microsoft-`
`suffixes= --log-level=INFO`
- Execute the following Azure CLI commands :
 - `az login -u <username@domain.com> -p <password>`
 - `az group create -n "groupname" -l <location>`
 - `az storage account create --resource-group <groupname> --location <location> --sku Standard_LRS --kind Storage --name <storagename>`
 - `az storage container create -n copiedvhds --account-name <storagename>`
 - `az storage account keys list -g <groupname> -n <storagename>`
 - `az copy --blob-type page --source <Sentry VHD File Source Location> --destination <https://storagename.blob.core.windows.net/copiedvhds/sentry-mobileiron.vhd> --dest-key <account keys from previous command>`
 - `az deployment group create --resource-group <groupname> --template-file <path-to-template> --parameters <path-to-parameter>`
- "location" - It is the Azure location where the group is created.
- The "Sentry VHD File Source Location" is available in the *Ivanti Standalone Sentry Release and Upgrade Notes*.
- If you are using an installer, an understanding of creating a VM on Microsoft Azure. You will be creating a VM for Ivanti Standalone Sentry in Microsoft Azure using the Azure Resource Manager deployment model using CLI only.

For Microsoft Azure command line interface (CLI) commands, see <https://azure.microsoft.com/en-us/documentation/articles/virtual-machines-command-line-tools/>

- Minimum memory and CPU requirements for Ivanti Standalone Sentry:

TABLE 10. MINIMUM MEMORY AND CPU REQUIREMENTS

Item	Requirement
Configuration size	Medium configuration
Maximum devices	< 8000 devices
Memory	6 GB
Virtual CPUs**	2
Memory reservations	6 GB
Disk	32 GB

The Ivanti Standalone Sentry medium configuration size maps to Standard_D2_v2 VM type offered by Microsoft Azure.

- Site-to-site VPN is enabled between Ivanti EPMM and Microsoft Azure.

Overview of tasks for installing Ivanti Standalone Sentry on Microsoft Azure

Installing Ivanti Standalone Sentry on Microsoft Azures requires the following:

1. ["Installing Ivanti Standalone Sentry on Microsoft Azure" on the next page](#)
2. ["Setting the initial configuration of Ivanti Standalone Sentry installed on Microsoft Azure" on page 52](#)

Installing Ivanti Standalone Sentry on Microsoft Azure



The following instructions are specific to an installation using Microsoft Azure Cloud Shell bash commands. If you are working from a Mac, Linux, or Windows machine see the Microsoft Azure documentation for creating a VM Instance from a VHD using Azure CLI.

The .vhd filenames are examples. For the correct .vhd filename for this release, see the Ivanti Standalone Sentry release notes for this release.

Before you begin

1. See "[Before you begin Ivanti Standalone Sentry installation on Microsoft Azure](#)" on page 46.
2. Modify the json parameter file:

Change the value of "adminPassword".

Change the value of "storageAccountName". You will use this value in the installation steps.

Example: daredevil78

Change the value of "vhdName". You will use this value in the installation steps.

Example: sentryblobV920.vhd

3. For installation using Cloud Shell, upload the template file and parameters file as described in: <https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-template-deploy-cli#deploy-template-from-cloud-shell>

Procedure

	Task	Enter Azure CLI command
1.	Login	<code>az login -u <username@domain.com> -p <password></code>
2.	Create resource group	<code>az group create -n "groupname" -l <location></code> Example: <code>az group create -n "daredevil" -l "westus"</code>
3.	Create storage account	<code>az storage account create --resource-group <groupname> --location <location> --sku Standard_LRS --kind Storage --name <storagename></code> Example: <code>az storage account create --resource-group daredevil --location "westus" --sku Standard_LRS --kind Storage --name daredevil78</code>

	Task	Enter Azure CLI command
4.	Create container inside storage account	<pre>az storage container create -n copiedvhds --account-name <storagename></pre> <p>Example:</p> <pre>az storage container create -n copiedvhds --account-name daredevil78</pre>
5.	List the storage account keys	<pre>az storage account keys list -g <groupname> -n <storagename></pre> <p>Example:</p> <pre>az storage account keys list -g daredevil -n daredevil78</pre>
6.	Copy vhd to	<pre>az copy --blob -type page --source <Sentry VHD File Source Location> --destination <https://storagename.blob.core.windows.net/copiedvhds/sentry-mobileiron.vhd> --dest-key <account keys from previous command></pre>
7.	Installing the vhd	<pre>az deployment group create --resource-group <groupname> --template-file <path-to-template> --parameters <path-to-parameter></pre> <p>Example</p> <pre>az deployment group create --resource-group daredevil --template-file <clouddrive/templates/singleInstanceVMv2_d.json> --parameters <clouddrive/templates/singleInstanceVM.parametersV2d.json></pre>

Next steps

Go to ["Setting the initial configuration of Ivanti Standalone Sentry installed on Microsoft Azure"](#) on the next page.

Setting the initial configuration of Ivanti Standalone Sentry installed on Microsoft Azure

You do the initial configuration of Ivanti Standalone Sentry in the configuration wizard, which is presented after the VM instance for Standalone Sentry is created and running. You configure system properties, administrator accounts, and network settings during initial installation.

Procedure

1. SSH to the Ivanti Standalone Sentry FQDN.

The FQDN for Ivanti Standalone Sentry is *resource_group_name_sentry_location_cloudapp.azure.com*.

Example of the Ivanti Standalone Sentry FQDN: *daredevilsentry.westus.cloudapp.azure.com*

To check the DNS value given by Microsoft Azure, login to the Microsoft Azure portal, go to the resource group and click on the Sentry VM.

2. For username, enter **azureuser**.

For the first ssh access to Ivanti Standalone Sentry, you must use **azureuser** for the username. For subsequent ssh access use the username you created in "Create the VM image and VM instance."

3. For password, enter the value of the adminPassword you created when you installed Ivanti Standalone Sentry on Microsoft Azure.

The Configuration Wizard starts.

4. Use the Configuration Wizard to set up Ivanti Standalone Sentry.
5. Enter **reload** to complete the installation.

Ignore the Hostname warning. Microsoft Azure sets the hostname. Proceed with the reload and save the configuration.

Related topics

- The value of the adminPassword was created in "[Installing Ivanti Standalone Sentry on Microsoft Azure](#)" on page 50.
- For a description of the configuration wizard prompts and actions, see "[Ivanti Standalone Sentry configuration wizard prompts and options](#)" on page 54.

Next steps

Ivanti Standalone Sentry configuration is done in the UEM platform you have deployed. Depending on whether you have deployed Ivanti EPMM or Ivanti Neurons for MDM, you will either add or register Ivanti Standalone Sentry.

Secure the communication from your UEM to Ivanti Standalone Sentry through an IPSec tunnel.

TABLE 11. NEXT STEPS

UEM	Next Steps
Ivanti EPMM	For Ivanti EPMM deployments, configure Ivanti Standalone Sentry in the Ivanti EPMM Admin Portal. See "Adding Ivanti Standalone Sentry in Ivanti EPMM" on page 31 .
Ivanti Neurons for MDM	For Ivanti Neurons for MDM deployments, register Standalone Sentry to Ivanti Neurons for MDM. See "Registering Ivanti Standalone Sentry to Ivanti Neurons for MDM" on page 32

Ivanti Standalone Sentry configuration wizard prompts and options

The following table provides sequence of prompts and actions in the configuration wizard for Ivanti Standalone Sentry.

TABLE 12. CONFIGURATION WIZARD PROMPTS AND ACTIONS


Prompt	Enter
System properties, Admin accounts setup	
Welcome to the MobileIron Configuration Wizard Use the "--" character to move back to a previous field. Continue with configuration dialog? (yes/no):	yes
Do you accept the End User License Agreement?:	yes Enter yes to accept the End User License Agreement.
Company name	A name that identifies your organization.
Contact person name	The name of the responsible person in your organization.
Contact person email	The email address for the responsible person.
Enter enable secret:	A password for privileged access. The password must be alphanumeric and contain 6-20 characters.
Enter enable secret (confirm):	Re-enter the password you just set.
Administrator User Name:	User name for the Sentry administrator.
Administrator Password	Password for the Sentry administrator.
Administrator Password (confirm)	Re-enter the password.
Network setup	
 DHCP and SSH are enabled by default. SSH can be disabled after doing the initial setup. You can disable SSH for Ivanti Standalone Sentry in Ivanti Neurons for MDM.	
Configure NTP? (yes/no):	yes Enter yes to specify the time source. If you decide not to set up NTP access, then you will be prompted to set the system clock.

TABLE 12. CONFIGURATION WIZARD PROMPTS AND ACTIONS (CONT.)

Prompt	Enter
NTP server 1 hostname or address:	The hostname or IP address of the NTP server. The NTP server address should be a public IP address reachable by Ivanti Standalone Sentry. Example: time.apple.com
NTP server 2 hostname or address:	The hostname or IP address of another time source, or press Enter if you are finished entering time sources. The NTP server address should be a public IP address reachable by Ivanti Standalone Sentry. Example: time.apple.com
NTP server 3 hostname or address:	The hostname or IP address of another NTP server, or press Enter if you are finished entering time sources. The NTP server address should be a public IP address reachable by Ivanti Standalone Sentry. Example: time.apple.com
Commit this config?	yes